

What is claimed is;

1. An electronic still camera comprising:

a photographic image capturing device that outputs image

5 data by capturing a subject image passing through a taking lens;

an analytic image capturing device provided at a position adjacent to the position that is conjugate with said

photographic image capturing device relative to the taking

10 lens, that receives light forming the subject image and outputs image data for scene analysis;

an analyzing circuit that performs scene analysis of said subject image based upon the image data for scene analysis output by said analytic image capturing device; and

15 an image processing circuit that performs image processing on the image data output by said photographic image capturing device based upon scene analysis results output by said analyzing circuit.

20 2. An electronic still camera according to claim 1, wherein:

said analytic image capturing device has a smaller number of pixels than said photographic image capturing device.

3. An electronic still camera according to claim 2, wherein:

25 said analyzing circuit calculates parameters such as

coefficients and gains for various types of image processing performed at said image processing circuit.

4. An electronic still camera according to claim 3, wherein:

5       said analytic image capturing device is divided into a plurality of areas each having a plurality of pixels receiving the subject image and said analyzing circuit calculates the parameters based upon image data for scene analysis output from said plurality of areas.

5. An electronic still camera according to claim 2, wherein:

10       said analyzing circuit calculates a gradation ( $\gamma$ ) curve based upon brightness values in the image data for scene analysis; and

15       said image processing circuit corrects photographic image data based upon the gradation curve.

6. An electronic still camera according to claim 5, wherein:

20       said analytic image capturing device is divided into a plurality of areas each having a plurality of pixels receiving the subject image and said analyzing circuit calculates the gradation curve based upon image data for scene analysis output by a plurality of areas.

25   7. An electronic still camera according to claim 2, wherein:

the image data for scene analysis output by said analytic image capturing device contain RGB signals, said analyzing circuit calculates gains for white balance adjustment based upon the RGB signals and said image processing circuit corrects the photographic image data based upon gains for white balance adjustment.

8. An electronic still camera according to claim 2, wherein: said image processing circuit calculates parameters such as coefficients and gains to be utilized for various types of image processing based upon image data corresponding to, at least, a specific area among the photographic image data output by said photographic image capturing device; and

said analyzing circuit determines the specific area based upon scene analysis results.

9. A single lens reflex type electronic still camera, comprising:

a viewfinder device to which a subject image passing through a taking lens is guided by a quick return mirror;

a photographic image capturing device provided at a stage to the rear of the quick return mirror, that captures the subject image and outputs image data;

an analytic image capturing device provided at a position adjacent to the position that is conjugate with said

photographic image capturing device relative to the taking lens, that receives light forming the subject image guided to said viewfinder device from the quick return mirror and outputs image data for scene analysis;

5 an arithmetic operation circuit that is supplied with the image data for scene analysis output by said analytic image capturing device, and calculates in advance parameters such as coefficients and gains to be utilized for image processing based upon the image data for scene analysis; and

10 an image processing circuit that performs image processing on the image data output by said photographic image capturing device using the parameters calculated at said arithmetic operation circuit.

15 10. A single lens reflex type electronic still camera, comprising:

a viewfinder device to which a subject image passing through a taking lens is guided by a quick return mirror;

20 a photographic image capturing device provided at a stage to the rear of the quick return mirror, that captures the subject image and outputs image data;

an analytic image capturing device provided at a position adjacent to the position that is conjugate with said photographic image capturing device relative to the taking

25 lens, that receives light forming the subject image guided to

said viewfinder device from the quick return mirror and outputs image data for scene analysis;

an arithmetic operation circuit that is supplied with the image data for scene analysis output by said analytic image capturing device, and calculates in advance parameters such as coefficients and gains to be utilized for image processing based upon the image data for scene analysis; and an image processing circuit that calculates parameters such as coefficients and gains to be utilized for various types of image processing based upon image data corresponding to at least, a specific area among photographic image data output by said photographic image capturing device and performs image processing on the photographic image data using the parameters; and

an analyzing circuit that performs scene analysis on the subject image based upon the image data for scene analysis output by said analytic image capturing device and determines the specific area based upon results of the scene analysis.

11. An information recording apparatus, comprising:

at least a first image capturing device and a second image capturing device that output image data by capturing a subject image passing through a taking lens;

an analyzing circuit that performs scene analysis on the subject image using image data output by, at least, either said

first image capturing device or said second image capturing device; and

an image processing circuit that performs image processing on image data output by, at least, either said first image capturing device or said second image capturing device based upon scene analysis results obtained at said analyzing circuit.

12. An information recording apparatus according to claim 11, wherein:

said first image capturing device and said second image capturing device have different numbers of pixels from each other, and image data output by an image capturing device having a smaller number of pixels are input to said analyzing circuit.

13. An information recording apparatus according to claim 12, wherein:

said analyzing circuit calculates parameters such as coefficients and gains for various types of image processing performed at said image processing circuit.

14. An information recording apparatus according to claim 13, wherein:

said image capturing device utilized for scene analysis is divided into a plurality of areas each having a plurality of

pixels receiving the subject image and said analyzing circuit performs scene analysis based upon image data for scene analysis output from the plurality of areas.

5 15. An information recording apparatus according to claim 12, wherein:

said analyzing circuit calculates a gradation ( $\gamma$ ) curve based upon brightness values in the image data for scene analysis; and

10 said image processing circuit corrects photographic image data based upon the gradation curve.

16. An information recording apparatus according to claim 15, wherein:

15 said image capturing device utilized for scene analysis is divided into a plurality of areas each having a plurality of pixels receiving the subject image and said analyzing circuit calculates the gradation curve based upon image data for scene analysis output from the plurality of areas.

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17. An information recording apparatus according to claim 12, wherein:

the image data for scene analysis output by said image capturing device for scene analysis contain RGB signals, said  
25 analyzing circuit calculates gains for white balance adjustment

based upon the RGB signals and said image processing circuit corrects photographic image data based upon the gains for white balance adjustment.

5 18. An information recording apparatus according to claim 12, wherein:

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10 said image processing circuit calculates parameters such as coefficients and gains to be utilized for various types of image processing based upon image data corresponding to, at least, a specific area among photographic image data output by said image capturing device for photographing; and

said analyzing circuit determines the specific area based upon scene analysis results.